

# DAILY OBSERVATION REPORT

Report No.: 26      EA Project File: 1447429      Date: January 30, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



Site No. 1-52-140

Contractor PM: AECOM – Walter Howard

NYSDEC PM: Jeffrey Dyber

Construction Manager: AECOM - Kent Wagoner

Air Monitoring: AECOM

Health & Safety: AECOM

**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

## Weather Conditions

General Description	Sunny	am	Sunny	Pm
Temperature	30	am	40	Pm
Wind Direction	5-8 mph W	am	8-10 mph W	Pm

## HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Were there any changes to the Health & Safety Plan?      \*Yes ( )      No (X)      NA ( )

Were there any exceedances at the perimeter Air: action level reported on this date?      \*Yes ( )      No (X)      NA ( )

Were there any dust/odor issues reported or observed on this date?      \*Yes ( )      No (X)      NA ( )

## Summary of Events:

- Onsite at 10:30, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Over the weekend 14-ft of sand infiltrated through the bottom of DDC-06 outer casing and buried the drill head. The drill rig lacked the power to remove the drill head. Layne directed high-velocity air and water down the borehole and ejected 7 ft of material through the annulus. At this point, Layne was able to remove the drill head and drill string components from the borehole. The remaining 7 ft of material was removed via 6-in. diameter steel bailer. All sand and water was discharged to a poly lined roll-off. Layne pumped water from the roll-off to the weir tank for settling. Once borehole was cleared to bottom of casing, Layne re-assembled drill string and welded additional casing. Layne advanced DDC-06 borehole to 61 ft below ground surface (bgs).
- Posillico continued pre-fabricating high-density-polyethylene (HDPE) piping and fittings on SCWA property.
- Offsite at 15:30.

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EA Project File: 1447429

Date: January 30, 2012

## VISITORS TO SITE:

NAME	Representing	Entered Exclusion/CRZ Zone	
None		Yes ( )	No ( )

## PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 30 January 2012



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Date: January 30, 2012

Photographs



View of Layne drilling DDC-06.



Layne using 6-in. diameter bailer to remove sands.

# DAILY OBSERVATION REPORT

Report No.: 27 EA Project File: 1447429 Date: January 31, 2012

## EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

**Site No. 1-52-140**

Contractor PM: AECOM – Walter Howard  
NYSDEC PM: Jeffrey Dyber  
Construction Manager: AECOM - Kent Wagoner  
Air Monitoring: AECOM  
Health & Safety: AECOM

### Weather Conditions

<b>General Description</b>	Sunny	am	Sunny	Pm
<b>Temperature</b>	43	am	52	Pm
<b>Wind Direction</b>	Calm	am	10-12 mph W	Pm

### HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

<b>Were there any changes to the Health &amp; Safety Plan?</b>	*Yes ( )	No (X)	NA ( )
<b>Were there any exceedances at the perimeter action level reported on this date?</b> Air:	*Yes ( )	No (X)	NA ( )
<b>Were there any dust/odor issues reported or observed on this date?</b>	*Yes ( )	No (X)	NA ( )

### Summary of Events:

- Onsite at 07:30, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed near northwest of DDC-10 and downwind station east of DDC-09. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along Suffolk County Water Authority (SCWA) western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne finished drilling DDC-06 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual rotary/air rotary techniques. The 24-in. diameter borehole was set at 80 ft below ground surface (bgs). Wasatch observed an increase in the amount of clay material in the cuttings from 80 bgs interval, which is indicative of the gardiner clay aquitard. EA and Wasatch confirmed borehole depth was at top of clay aquitard and in accordance with specifications. All drill cuttings and formation water generated during drilling were returned to the surface within the annulus between the drill string and outer casing. Cuttings and water were discharged to a poly lined roll-off. Water was pumped from the roll-off and directed to the weir tank for settling. All drill cuttings (fine-medium sands) were logged by Wasatch. Tomorrow (1 February 2012), Layne will mobilize well assembly materials and supplies to DDC-06. Drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.

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- Posillico began excavating pipe airline trench along Benjoe Drive from DDC-10 to DDC-09 (Refer to Revised RAWP Figure 1, Submittal No. 02686-002A). Prior to startup, Posillico installed necessary traffic controls in accordance with the Traffic Control Plan, Permit No. 60135649. A backhoe was used to excavate the 3.5-ft wide DDC airline trench (Refer to RAWP Figure 6 – Typical Trench Details). The trench bottom was excavated on a grade, to promote drainage of condensate moisture to airline sumps. Trench bottom was relatively smooth and free of rock and asphalt. Trench walls were not sloped because depth of trench was less than 4.5-ft below grade (OSHA Trenching Requirements). Excavation activities were completed in accordance with RAWP Section 2.3.4 – Utility and Pipe Excavation Plan, Contract Document Section 02220 – Excavation and Subgrade Preparation, and Section 02225 – Trenching.
- Prior to high-density polyethylene (HDPE) pipe installation, Posillico prefabricated pipe lengths and fittings on SCWA property using heat fusion welds (RAWP Section 2.3.4.1 – Piping Installation). Posillico installed HDPE piping from DDC-10 to DDC-09 (for pipe layout refer to RAWP Figure 6 – Typical Trench Details; Section F-F). One 6-in. air supply line and one 4-in. air return line were installed through DDC-10 concrete vault using a molded 45° elbow (See Submittal No. 15064-001A for specs). Brick and mortar were used to seal around point of entry. At the request of the New York State Department of Environmental Conservation (NYSDEC), two additional sets (spares) of piping (two 6-in. air supply lines and two 4-in. air return lines) were installed in the trench extending to DDC-10. A molded butt cap (See Submittal No. 15064-001A for specs) was used to cap the ends of the spare air lines. Copper tracer wire was placed from DDC-10 to DDC-09. No damaged piping/fittings were used throughout the process. Pressure testing will be conducted after air lines are backfilled. Piping installation was completed in accordance with RAWP Section 2.3.4.1 – Piping Installation and Section 02605 – Underground Piping of the Contract Documents.
- Prior to backfilling, unfinished pipe ends were wrapped in plastic to prevent soils from entering. Posillico used excavated material (fine-coarse sand) as backfill. Material contained no rock, asphalt, or sharp edged debris. Backfilled material was compacted in 12-in. lifts using plate compactor. Approximately 6-in. of material placed between lower 6-in. supply lines and upper 4-in. return lines (See RAWP Figure 6 for piping cross sections). Recycled concrete blend compacted at grade for temporary road use. Permanent asphalt pavement will be placed once trenching is complete. Backfilling was done in accordance with RAWP Sections 2.3.4, 2.3.4.1, and 2.3.4.2 and Contract Document Sections 02111, 02200, 02220, and 02225.
- No concerns/complaints from residences were documented.
- Offsite at 17:30.

## VISITORS TO SITE:

NAME	Representing	Entered Exclusion/CRZ Zone	
None		Yes ( )	No ( )

## PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Install underground piping (30 January – 24 February 2012)
- Install airline sump (13 -17 February 2012)

## ISSUES PENDING:

- None

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Date: January 31, 2012

## ITEMS OF CONCERN:

- None

**Site Representative:**

Robert Peterson

**Date:** 31 January 2012



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Date: January 31, 2012

Photographs



View of traffic controls along Benjoe Dr., at DDC-09 looking west.



Posillico removing asphalt from trench line, at DDC-10 looking east.

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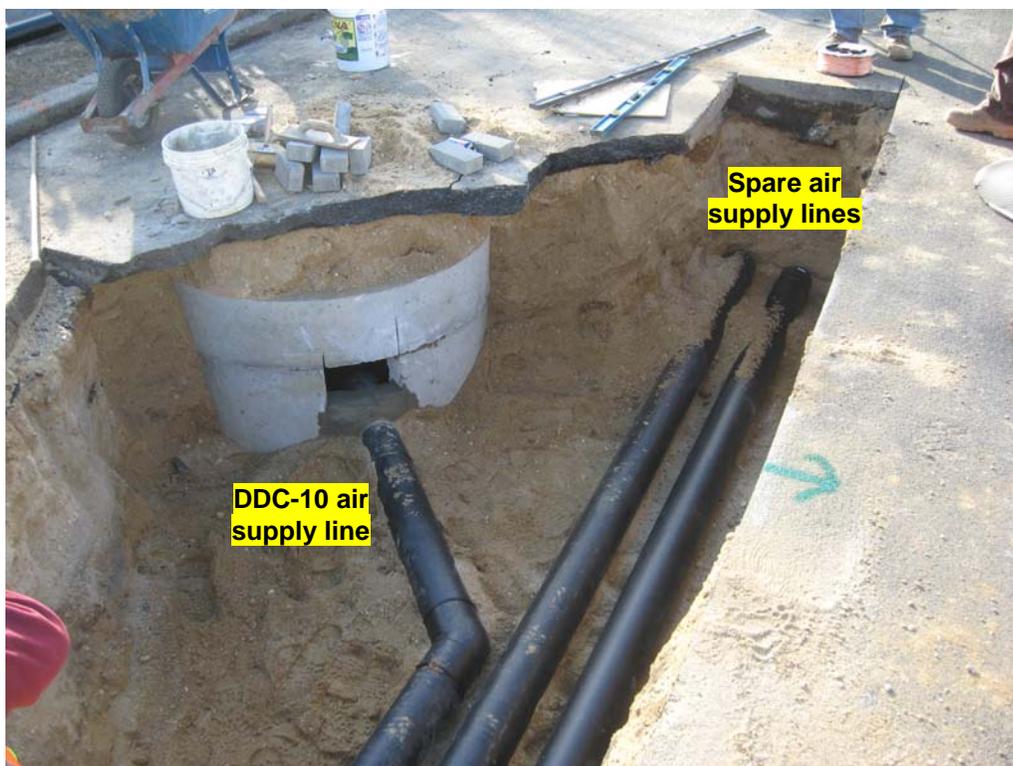
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View of DDC-10 vault with piping inlet.



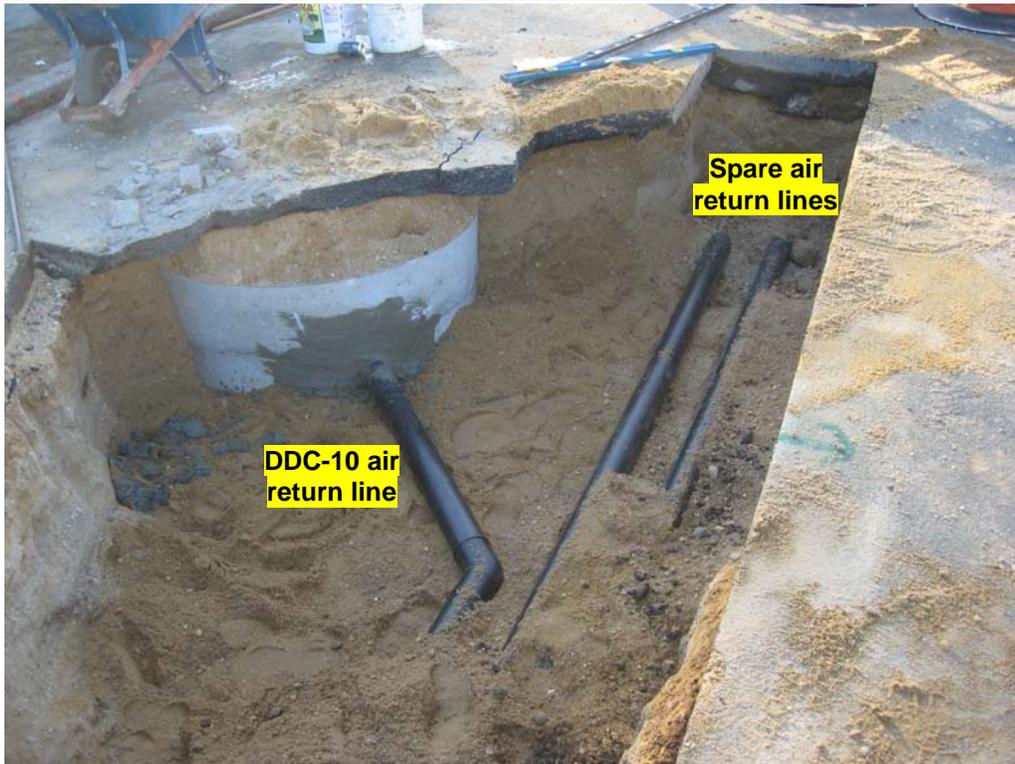
View of 6 in. supply lines at DDC-10 (one at DDC-10, two spares).

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View of 4 in. return lines at DDC-10 (one at DDC-10, two spares).



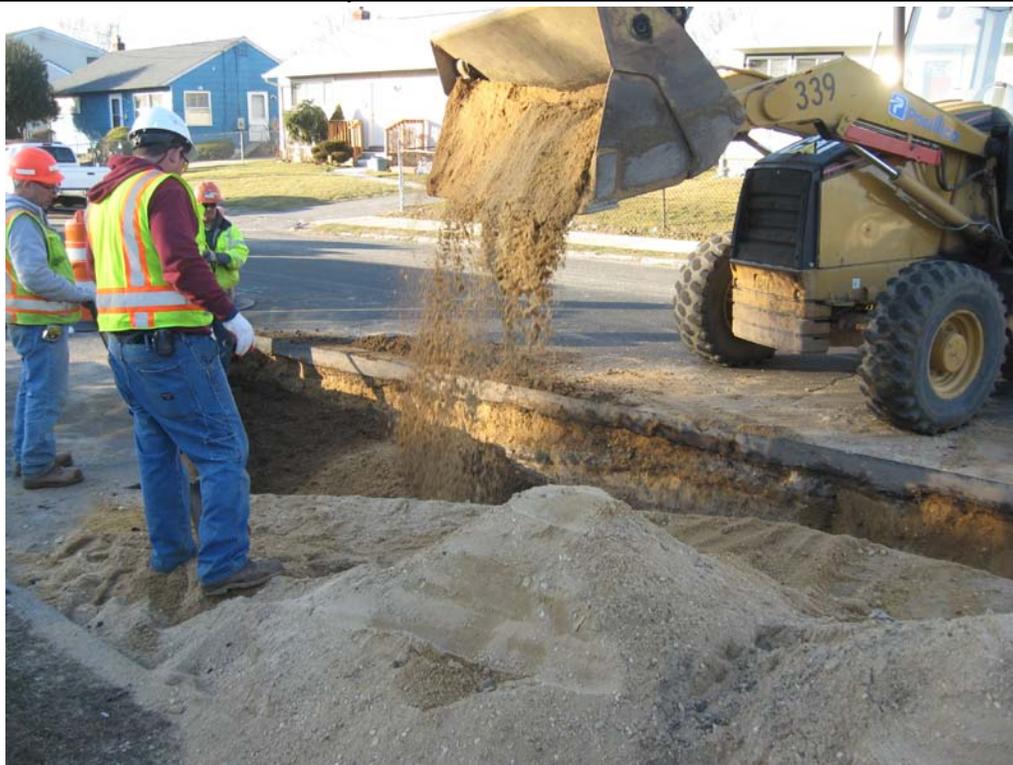
HDPE piping extending through trench line, at DDC-10 looking east.

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Posillico backfilling trench line from DDC-10 to DDC-09.



Posillico compacting native material near DDC-10.

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Posillico compacting crushed concrete at grade for road use.



View of drill cuttings from DDC-06.

# DAILY OBSERVATION REPORT

Report No.: 28 EA Project File: 1447429 Date: February 01, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



Site No. 1-52-140

Contractor PM: AECOM – Walter Howard

NYSDEC PM: Jeffrey Dyber

Construction Manager: AECOM - Kent Wagoner

Air Monitoring: AECOM

Health & Safety: AECOM

**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

## Weather Conditions

<i>General Description</i>	Cloudy/Showers	am	Sunny	Pm
<i>Temperature</i>	40	am	56	Pm
<i>Wind Direction</i>	5-10 mph W	am	10-15 mph W	Pm

## HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Were there any changes to the Health & Safety Plan?	*Yes ( )	No (X)	NA ( )
Were there any exceedances at the perimeter action level reported on this date? Air:	*Yes ( )	No (X)	NA ( )
Were there any dust/odor issues reported or observed on this date?	*Yes ( )	No (X)	NA ( )

## Summary of Events:

- Onsite at 07:30, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed at DDC-10 and downwind station DDC-07. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along Suffolk County Water Authority (SCWA) western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Overnight 5 ft of sand infiltrated through the bottom of DDC-06 outer casing. Layne used a 6-in. diameter steel bailer to remove the material to 82 ft below ground surface (bgs). Remainder of day was spent demobilizing drilling equipment and mobilizing well installation materials (i.e., sand, grout, 12-in. well screen/riser). Note: Gardiners clay elevation is approximately 82.5 ft bgs, DDC-06 will be set at 82 ft bgs. EA and Wasatch confirmed borehole depth was at top of clay aquitard and in accordance with specifications. Tomorrow (2 February 2012), Layne will begin installing DDC-06 well.
- Posillico continued excavating pipe airline trench along Benjoe Drive from DDC-09 to DDC-08 (Refer to Revised RAWP Figure 1, Submittal No. 02686-002A). Prior to startup, Posillico installed necessary traffic controls in accordance with the Traffic Control Plan, Permit No. 60135649. A backhoe was used to excavate the 3.5-ft wide DDC airline trench (Refer to RAWP Figure 6 – Typical Trench Details). The trench bottom was excavated on a grade, to promote drainage of condensate moisture to airline sumps. Trench bottom was relatively smooth and free of rock and asphalt. Trench walls were not sloped because depth of trench was less than 4.5-ft below grade (OSHA

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Trenching Requirements). Excavation activities were completed in accordance with RAWP Section 2.3.4 – Utility and Pipe Excavation Plan, Contract Document Section 02220 – Excavation and Subgrade Preparation, and Section 02225 – Trenching.

- Prior to high-density polyethylene (HDPE) pipe installation, Posillico prefabricated pipe lengths and fittings on SCWA property using heat fusion welds (RAWP Section 2.3.4.1 – Piping Installation). Posillico installed HDPE piping from DDC-09 to DDC-08 (for pipe layout refer to RAWP Figure 6 – Typical Trench Details; Section E-E). One 6-inch air supply line and one 4-inch air return line were installed through DDC-09 concrete vault using a molded 45° elbow (See Submittal No. 15064-001A for specs). Brick and mortar were used to seal around point of entry. DDC-09, DDC-10, and two additional sets (spares) of air lines were extended through the trench line to DDC-08. Piping extensions were connected in the trench line using Type A Couplers via Electrofusion (See Submittal No. 15064-001A for specs). Copper tracer wire was continuously placed through the trench to DDC-08. No damaged piping/fittings were used throughout the process. Pressure testing will be conducted after air lines are backfilled. Piping installation was completed in accordance with RAWP Section 2.3.4.1 – Piping Installation and Section 02605 – Underground Piping of the Contract Documents.
- Prior to backfilling, unfinished pipe ends were wrapped in plastic to prevent soils from entering. Posillico used excavated material (fine-coarse sand) as backfill. Material contained no rock, asphalt, or sharp edged debris. Backfilled material was compacted in 12-inch lifts using plate compactor. Approximately 6-in. of material placed between lower 6-in. supply lines and upper 4-in. return lines (See RAWP Figure 6 for piping cross sections). Recycled concrete blend compacted at grade for temporary road use. Traffic controls removed from street overnight. Permanent asphalt pavement will be placed once trenching is complete. Backfilling was done in accordance with RAWP Sections 2.3.4, 2.3.4.1, and 2.3.4.2 and Contract Document Sections 02111, 02200, 02220, and 02225.
- No concerns/complaints from residences were documented.
- Offsite at 18:00.

## VISITORS TO SITE:

NAME	Representing	Entered Exclusion/CRZ Zone	
		Yes ( )	No ( )
None			

## PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Install underground piping (30 January – 24 February 2012)
- Install airline sump (13 -17 February 2012)

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative: Robert Peterson

Date: 01 February 2012



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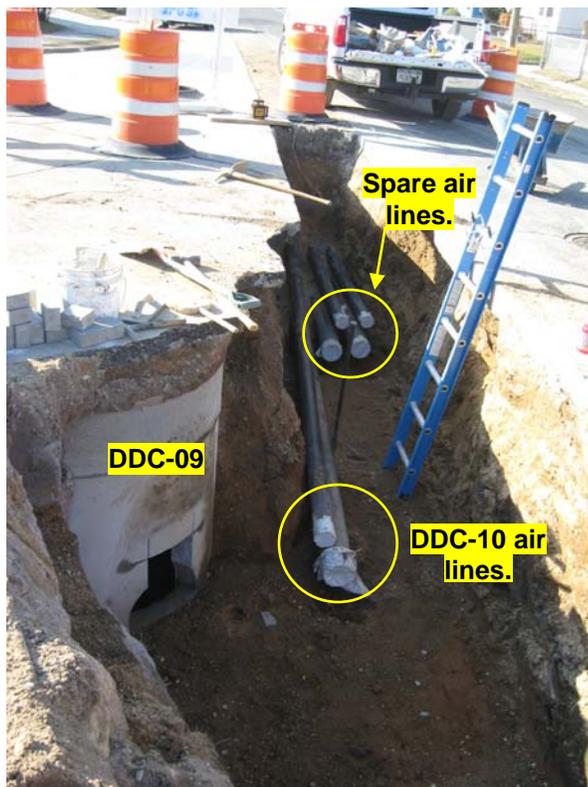
EA Project File: 1447429

Date: February 01, 2012

**Photographs**



View of trench line during excavation and traffic controls.



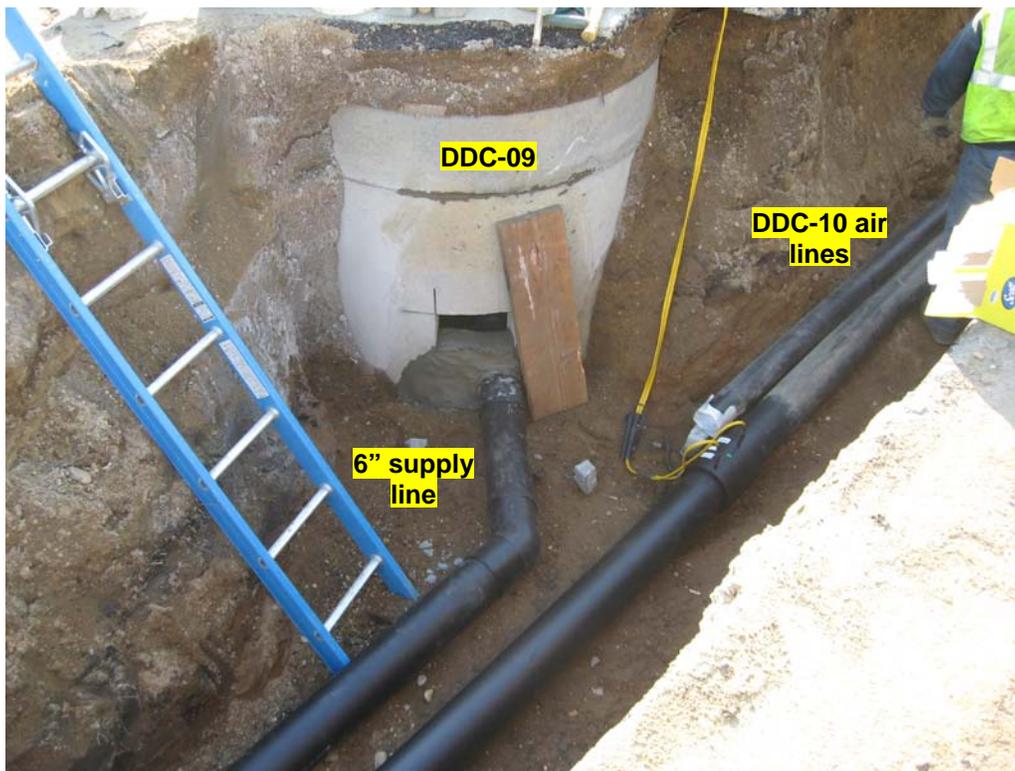
View of DDC-09 vault and air lines from DDC-10 and spares.

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Date: February 01, 2012



View of 6 in. air supply line inserted into DDC-09 vault.



View of Type A Coupling and yellow electrofusion probes.

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Date: February 01, 2012



Posillico performing heat fusion weld in trench.



HDPE air lines extending through trench line, at DDC-08 looking west.

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Date: February 01, 2012



Posillico compacting backfill, at DDC-09 looking east.

# DAILY OBSERVATION REPORT

Report No.: 29 EA Project File: 1447429 Date: February 02, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



Site No. 1-52-140

Contractor PM: AECOM – Walter Howard

NYSDEC PM: Jeffrey Dyber

Construction Manager: AECOM - Kent Wagoner

Air Monitoring: AECOM

Health & Safety: AECOM

**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

## Weather Conditions

General Description	Cloudy	am	Mostly Cloudy	Pm
Temperature	36	am	47	Pm
Wind Direction	5-7 mph W	am	10-13 mph W	Pm

## HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Were there any changes to the Health & Safety Plan?	*Yes ( )	No (X)	NA ( )
Were there any exceedances at the perimeter action level reported on this date? Air:	*Yes ( )	No (X)	NA ( )
Were there any dust/odor issues reported or observed on this date?	*Yes ( )	No (X)	NA ( )

## Summary of Events:

- Onsite at 07:30, spoke with Sam Rowe and Ken Klenotiz (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed at intersection of Beta and Benjoe and downwind station near intersection of Albany and Benjoe. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along Suffolk County Water Authority (SCWA) western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne began installing DDC-06 recirculation well (See RAWP Figure 2 for general DDC well construction). The well was constructed of 10-in. diameter Schedule 40 polyvinyl chloride (PVC). Centralizers were used to position the well in the borehole. The 12-ft long lower screen (Johnson HQ 0.020 slot) and 1-ft sump (blank casing) were set at 82 ft below ground surface (bgs), with its bottom slot set near the surface of the clay aquitard (82.5 ft bgs). The 15-ft upper screen was screened from 14 to 29 ft bgs to capture the approximate seasonal water table. Layne installed two, 2-in. diameter, Schedule 40 PVC piezometers, mounted on the outside of the DDC well. The deep piezometer (DDC-06-PD) was placed on the north side of DDC-06 and screened over the same interval as the lower DDC well screen. The shallow piezometer (DDC-06-PS) was placed on the south side of DDC-06 and screened over the same interval as the upper DDC well screen. The well bore annulus was filled with Ricci #1 sand filter pack appropriate to the screens. Between the screens, the borehole annulus was filled with 3 to 4-ft long bentonite seals placed at 30, 45, and 60 ft bgs, separated by 15 to 20-ft long sections of choker sand (#00 sand). Layne gradually removed 24 in. outer casing as annular material added to borehole.

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- Posillico continued excavating pipe airline trench along Benjoe Drive from DDC-08 to DDC-07 (Refer to Revised RAWP Figure 1, Submittal No. 02686-002A). Prior to startup, Posillico installed necessary traffic controls in accordance with the Traffic Control Plan, Permit No. 60135649. A backhoe was used to excavate the 3.5-ft wide DDC airline trench (Refer to RAWP Figure 6 – Typical Trench Details). The trench bottom was excavated on a grade, to promote drainage of condensate moisture to airline sumps. Trench bottom was relatively smooth and free of rock and asphalt. Trench walls were not sloped because depth of trench was less than 4.5-ft below grade (OSHA Trenching Requirements). Excavation activities were completed in accordance with RAWP Section 2.3.4 – Utility and Pipe Excavation Plan, Contract Document Section 02220 – Excavation and Subgrade Preparation, and Section 02225 – Trenching.
- Prior to high-density poly ethylene (HDPE) pipe installation, Posillico prefabricated pipe lengths and fittings on SCWA property using heat fusion welds (RAWP Section 2.3.4.1 – Piping Installation). Posillico installed HDPE piping from DDC-08 to DDC-07 (for pipe layout refer to Submittal No. 15050-001A). One 6-inch air supply line and one 4-inch air return line were installed through DDC-08 concrete vault using a molded 45° elbow (See Submittal No. 15064-001A for specs). Brick and mortar were used to seal around point of entry. DDC-08, DDC-09, DDC-10, and two additional sets (spares) of air lines were extended through the trench line to DDC-07. Piping extensions were connected in the trench line using Type A Couplers via Electrofusion (See Submittal No. 15064-001A for specs) and/or heat fusion techniques. Copper tracer wire was continuously placed through the trench. No damaged piping/fittings were used throughout the process. Pressure testing will be conducted once air line installation is complete and backfilled. Piping installation was completed in accordance with RAWP Section 2.3.4.1 – Piping Installation and Section 02605 – Underground Piping of the Contract Documents.
- Prior to backfilling, unfinished pipe ends were wrapped in plastic to prevent soils from entering. Posillico used excavated material (fine-coarse sand) as backfill. Material contained no rock, asphalt, or sharp edged debris. Backfilled material was compacted in 12-in. lifts using plate compactor. Approximately 6-in. of material placed between lower 6-inch supply lines and upper 4-in. return lines (See RAWP Figure 6 for piping cross sections). Recycled concrete blend compacted at grade for temporary road use. Traffic controls removed from street overnight. Permanent asphalt pavement will be placed once trenching is complete. Backfilling was done in accordance with RAWP Sections 2.3.4, 2.3.4.1, and 2.3.4.2 and Contract Document Sections 02111, 02200, 02220, and 02225.
- No concerns/complaints from residences were documented.
- Off-site at 18:00.

## VISITORS TO SITE:

NAME	Representing	Entered Exclusion/CRZ Zone	
None		Yes ( )	No ( )

## PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Install underground piping (30 January – 24 February 2012)
- Install airline sump (13 -17 February 2012)

## ISSUES PENDING:

- None

**DAILY OBSERVATION REPORT**

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1447429

Date: February 02, 2012

**ITEMS OF CONCERN:**

- None

**Site Representative:**

Robert Peterson

**Date:** 02 February 2012



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Date: February 02, 2012

Photographs



Layne installing DDC-06 recirculation well and piezometers.



Layne adding sand to DDC-06.

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Date: February 02, 2012



Layne removing 24 in. diameter outer casing from DDC-06.



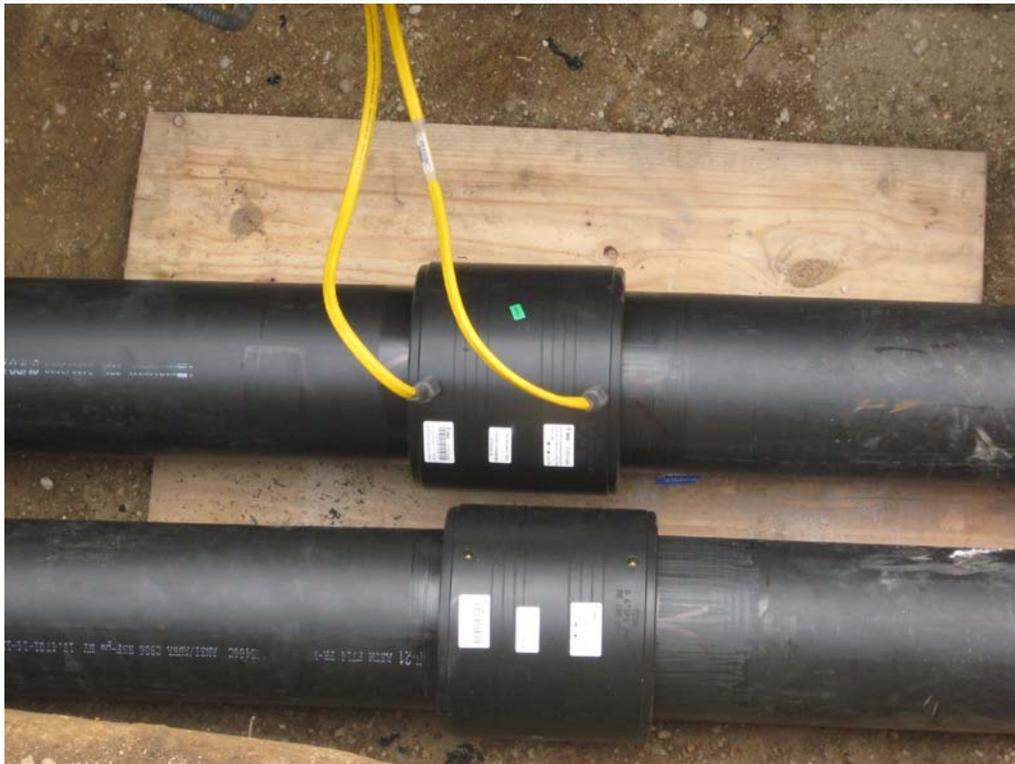
Posillico performing heat fusion weld in trench.

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Date: February 02, 2012



View of Type A Couplings and yellow electrofusion probes.



View of 4" air line attached to DDC-08 vault.

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EA Project File: 1447429

Date: February 02, 2012



HDPE air lines extending through trench line, at DDC-07 looking west.



Posillico compacting backfill, looking east.

# DAILY OBSERVATION REPORT

Report No.: 30 EA Project File: 1447429 Date: February 03, 2012

**EA Engineering, P.C.**

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



**Site No. 1-52-140**

Contractor PM: AECOM – Walter Howard  
NYSDEC PM: Jeffrey Dyber  
Construction Manager: AECOM - Kent Wagener  
Air Monitoring: AECOM  
Health & Safety: AECOM

**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

**Weather Conditions**

<b>General Description</b>	Sunny	am	Sunny	Pm
<b>Temperature</b>	33	am	43	Pm
<b>Wind Direction</b>	Calm	am	10-13 mph W	Pm

**HEALTH & SAFETY:**

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

<b>Were there any changes to the Health &amp; Safety Plan?</b>	*Yes ( )	No (X)	NA ( )
<b>Were there any exceedances at the perimeter action level reported on this date?</b>	*Yes ( )	No (X)	NA ( )
<b>Were there any dust/odor issues reported or observed on this date?</b>	*Yes ( )	No (X)	NA ( )

**Summary of Events:**

- Onsite at 07:30, spoke with Sam Rowe and Ken Klenotiz (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed at intersection of Beta and Benjoe and downwind station near intersection of Albany and Benjoe. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne continued placing annular materials from 45.0 to 14.0-ft bgs at DDC-06 (See RAWP Figure 2 for general DDC well construction). Ricci #1 sand filter pack was placed appropriate to the upper screen (29 to 14 ft bgs). Between the screens, the borehole annulus was filled with 3 to 4-ft long bentonite seals placed at 30 and 45 ft bgs, separated by 15 to 20-ft long sections of choker sand (#00 sand). Layne gradually removed 24 in. outer casing as annular material added to borehole. Approximately 60 ft of casing was removed. Monday, 06 February 2012, Layne will finish placing annular materials from 14 ft to grade and remove remaining outer casing.

# DAILY OBSERVATION REPORT

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- Posillico continued excavating pipe airline trench approximately 20-ft west of DDC-07 (Refer to Revised RAWP Figure 1, Submittal No. 02686-002A). Prior to startup, Posillico installed necessary traffic controls in accordance with the Traffic Control Plan, Permit No. 60135649. At 09:00 Posillico's backhoe ruptured a 1-inch gas line servicing 6 Benjoe Dr. residence. The gas line was oriented north-south and connected to a 4-inch main located along the southern edge of Benjoe Dr. (north of 3 Benjoe Dr.). Trenching and air line installation activities were suspended and Sam Rowe (AECOM) notified National Grid and Kent Wagoner (AECOM – Site Construction Manager) in accordance with AECOMs Site Health and Safety Plan, dated July 2011. At 09:15 National Grid representative arrives at Benjoe Dr. to assess situation and extent of gas leak. Rob Peterson (EA) and National Grid National Grid representative contacted 6 Benjoe Dr. resident and explained that gas service would be temporarily down for approximately 3 hours while repairs were made. 6 Benjoe Drive was the only residence affected, no other residences contacted. No concerns/complaints from residences were documented.
- 09:20 - National Grid unable to shut off gas service to 6 Benjoe Drive. Shut-off valve located 20-ft south of 6 Benjoe Dr. 10:00 - National Grid excavation crew arrives at Benjoe Dr. and begins excavating shut off valve. National Grid determined that 1-inch line and shut off valve were pulled to the south from the shut off access point. Furthermore, the line separated at a coupling 10-ft north of the shut off access point. 11:00 - National Grid excavated 1-in. damaged line and 4-inch gas main connection located 10-ft west of DDC-07. No damage or leaks discovered at connection. National Grid stopped flow of gas through damaged line by closing shut off valve at connection. 11:35 - National Grid excavated a 2 x 3-ft area in front lawn of 6 Benjoe Dr. to access separated line. Damaged piping removed and replaced with 1-in. poly line and tracer wire. National Grid restored service to 6 Benjoe Dr., notified resident, and backfilled all excavated areas. National Grid off-site at 14:45.
- Once National Grid restored damaged gas line, Posillico began backfilling trench line. Posillico used excavated material (fine-coarse sand) as backfill. Material contained no rock, asphalt, or sharp edged debris. Backfilled material was compacted in 12-in. lifts using plate compactor. Approximately 6-inches of material placed between lower 6-inch supply lines and upper 4-in. return lines (See RAWP Figure 6 for piping cross sections). Recycled concrete blend compacted at grade for temporary road use. Traffic controls removed from street overnight. Permanent asphalt pavement will be placed once trenching is complete. Backfilling was done in accordance with RAWP Sections 2.3.4, 2.3.4.1, and 2.3.4.2 and Contract Document Sections 02111, 02200, 02220, and 02225.
- Off-site at 15:00.

## VISITORS TO SITE:

NAME	Representing	Entered Exclusion/CRZ Zone	
None		Yes ( )	No ( )

## PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Install underground piping (30 January – 24 February 2012)
- Install airline sump (13 -17 February 2012)

## ISSUES PENDING:

- None

**DAILY OBSERVATION REPORT**

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**ITEMS OF CONCERN:**

- None

**Site Representative:**

Robert Peterson

**Date:** 03 February 2012



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**Photographs**



**View of trench line and damaged gas line, looking east.**



**View of damaged gas line.**

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National Grid excavating shut off valve on north side of Benjoe Dr., looking north.



National Grid excavating 1 and 4 in. gas line connection points, looking south.

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View of 1 and 4 in. gas line connection points with shut off valve.



View of replaced 1 in. gas line at 4 in. main connection point.

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**View of replaced gas line transecting trench line.**



**National Grid excavating point of separation at 6 Benjoe Dr., looking north.**

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View of excavation area at 6 Benjoe Dr.



View of replaced gas line at point of separation.

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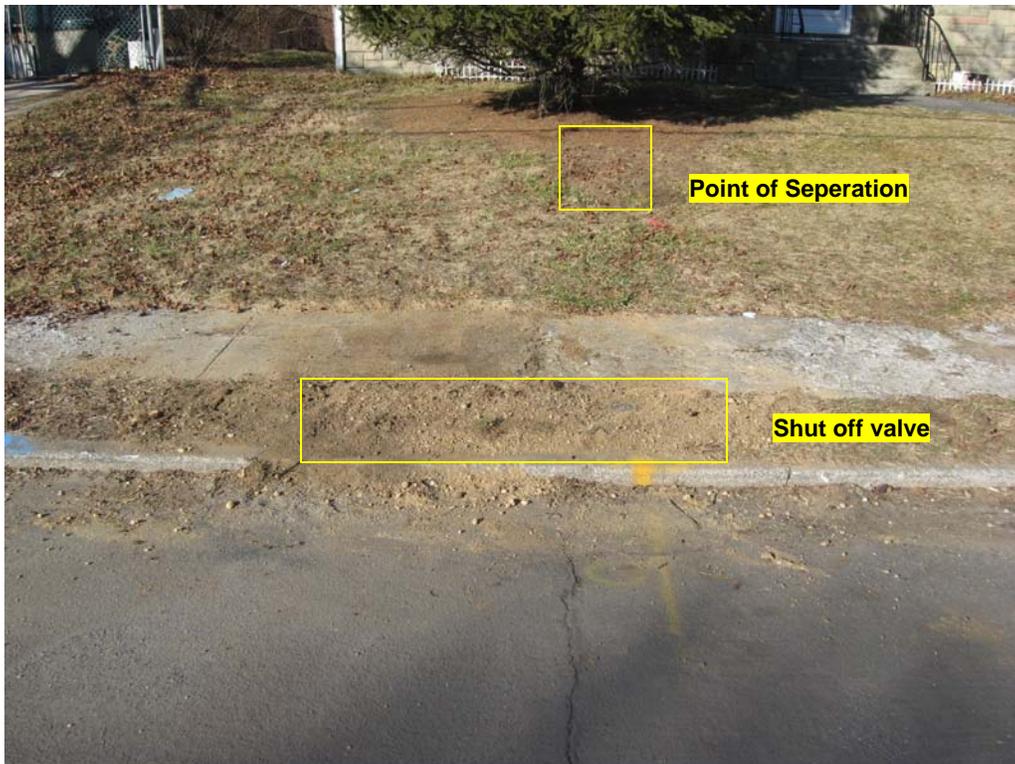
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View of restored shut off valve on north side of Benjoe Dr.



Backfilled point of separation and shut off valve excavation areas, looking north at 6 Benjoe Dr.